Claims

The invention claimed is:

1. A surgical targeting system for adding an indicia image to a radiographic image of a body resulting from passage of image radiation through the body, said targeting system comprising:

an antimicrobial drape having an inner surface of sufficient flexibility to conform to at least a portion of an outer surface of the body, said drape being puncturable to provide access to the outer surface of the body, said drape being transparent to the imaging radiation;

an indicia affixed to a portion of said drape, said indicia being opaque to the imaging radiation resulting in the indicia image corresponding to said indicia; and

a means for fixing said indicia relative to the outer surface of the body such that said indicia provides a reference on the body for correlating portions of the body to the radiographic body image.

2. The surgical targeting system of claim 1 wherein said drape comprises plastic impregnated with iodophor.

3. The surgical targeting system of claim 1 wherein said indicia comprises coordinates which are rectilinear and orthogonal.

4. The surgical targeting system of claim 1 wherein said indicia comprises polar coordinates.

5. The surgical targeting system of claim 1 wherein said fixing means comprises adhesive applied to said inner surface of said drape.

6. The surgical targeting system of claim 5 wherein said adhesive is applied continuously to the entire inner surface of said drape.

7. The surgical targeting system of claim 1 wherein said drape comprises a cylindrical portion.

8. The surgical targeting system of claim 7 wherein said drape comprises an end portion connected to and closing one end of said cylindrical portion, said end portion being hemispherical.

9. The surgical targeting system of claim 1 wherein said drape is conical.

10. The surgical targeting system of claim 9 wherein said indicia comprises a system of polar coordinates having a center coinciding with an apex of said drape.

11. A system for providing a sterile field around an elongate body comprising:

an antimicrobial drape having a cylindrical portion and an end portion connected to and closing one end of said cylindrical portion, said end portion being hemispherical, said drape having sufficient flexibility to conform to at least a portion of an outer surface of the elongate body, said drape being puncturable to

provide access to the outer surface of the body; and

means for fixing said drape to the outer surface of the body, said drape and fixing means being sterile to provide a sterile field around the outer surface of the body accessed by puncturing of said drape.

12. The ~~surgical targeting~~ sterile field system of claim 11 wherein said drape comprises plastic impregnated with iodophor.

13. The sterile field system of claim 11 wherein said fixing means comprises adhesive applied to the surface of said drape which contacts the outer surface of the body.

14. The sterile field system of claim 11 wherein said fixing means comprises forming said drape of expandable material and sizing said drape to have an internal volume which is less than the volume of the elongate body enabling said drape to be shrink-fitted onto the body.

15. The sterile field system of claim 11 wherein said drape is transparent to imaging radiation,

said sterile field system further comprising an indicia affixed to a portion of said drape, said indicia being opaque to the imaging radiation such that a radiographic image of the body resulting from passage of the image radiation through the body includes an indicia image corresponding to said indicia,

said fixing means fixing said indicia relative to the outer surface such that said indicia provides a reference on said body for correlating portions of the body to the radiographic image thereof.

16. A system for providing a sterile field around a conical body comprising:

a conical antimicrobial drape having sufficient flexibility to conform to at least a portion of an outer surface of the elongate body, said drape being puncturable to provide access to the outer surface of the body; and

means for fixing said drape to the outer surface of the body, said drape and fixing means being sterile to provide a sterile field around the outer surface of the body accessed by puncturing of said drape.

17. The ~~surgical targeting~~ sterile field system of claim 16 wherein said drape comprises plastic impregnated with iodophor.

18. The sterile field system of claim 16 wherein said fixing means comprises adhesive applied to the surface of said drape which contacts the outer surface of the body.

19. The sterile field system of claim 16 wherein said drape has a radial cutout having a base which coincides with a peripheral edge of said drape.

20. The sterile field system of claim 16 wherein said drape is transparent to imaging radiation,

said sterile field system further comprising an indicia affixed to a portion of said drape, said indicia being opaque to the imaging radiation such that a radiographic image of the body resulting from passage of the image radiation through the body includes an indicia image corresponding to said indicia,

said fixing means fixing said indicia relative to the outer surface such that said indicia provides a reference on said body for correlating portions of the body to the radiographic image thereof.

21. The sterile field system of claim 20 wherein said indicia comprises a system of polar coordinates having a center coinciding with the apex of said drape.

22. A method for correlating a selected portion of a body to a radiographic image of the body for treatment of the body, said method comprising the steps of:

applying a radio-transparent drape having radio-opaque indicia to the body;

fixing said drape and indicia to the body;

directing imaging radiation through said drape and indicia such that a radiographic image of said body and indicia is formed on a medium;

referencing on the radiographic image the selected portion of the body relative to the indicia;

locating the selected portion of the body by referencing the body relative to the indicia on the drape in a manner corresponding to said referencing of the radiographic image; and

puncturing the drape to access the body for treatment thereof.

23. The method of claim 22 and further comprising the steps of:

referencing a second selected portion of the body on the radiographic image relative to the indicia on the radiographic image; and

locating the second selected portion of the body by referencing the body relative to the indicia on the drape in a manner corresponding to said referencing of the second selected portion of the radiographic image.

24. The method of claim 22 wherein said applying step comprises placing the drape on the body such that the body is disposed between at least two portions of the indicia, said placing of the drape further providing that each said portion of the indicia is contained in a separate plane which is in parallel separation to the other plane.

25. The method of claim 22

wherein said applying step comprises placing the drape on the body such that the body is disposed between at least two portions of the indicia,

wherein said referencing step comprises identifying on the radiographic image the portions

of the indicia intersected by an axis coinciding with a selected direction through the body,

wherein said locating step comprises locating the selected direction through the body by referencing the body relative to the portions of the indicia on the drape identified in said referencing of the radiographic image;

wherein said puncturing step comprises puncturing the drape to access the body adjacent to at least one of the portions of the indicia.

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